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STATE DOCUMENTS

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STATE OF MONTANA

DEPARTMENT OF LIVESTOCK

Animal Health Division

Helena, Montana 59601

Telephone (406) 449-3074

STATISTICAL SUMMARY

for the

Fiscal Year Ended June 30, 1974

MONTANA STATE LIBRARY  
930 East Lyndale Avenue  
Helena, Montana 59601

Montana State Library



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STATE OF MONTANA  
DEPARTMENT OF LIVESTOCK

THOMAS L. JUDGE, GOVERNOR

BOARD OF LIVESTOCK

Robert M. Simons, Turner, Chairman  
Tom Evans, Stanford, Vice Chairman  
Jess Blankenship, Crow Agency  
Robert G. Barthelness, Miles City  
Fred A. Johnston, Great Falls  
Robert L. Deschamps, Jr., Banner



ANIMAL HEALTH DIVISION

Glenn C. Halver, D.V.M.  
Administrator  
449-3074

BRANDS - ENFORCEMENT DIVISION

Wm. G. Cheney  
Administrator  
449-2044

HELENA, MONTANA 59601

October 1, 1974

MEMBERS of the BOARD of LIVESTOCK  
Livestock Building  
Capitol Station  
Helena, MT 59601

GENTLEMEN:

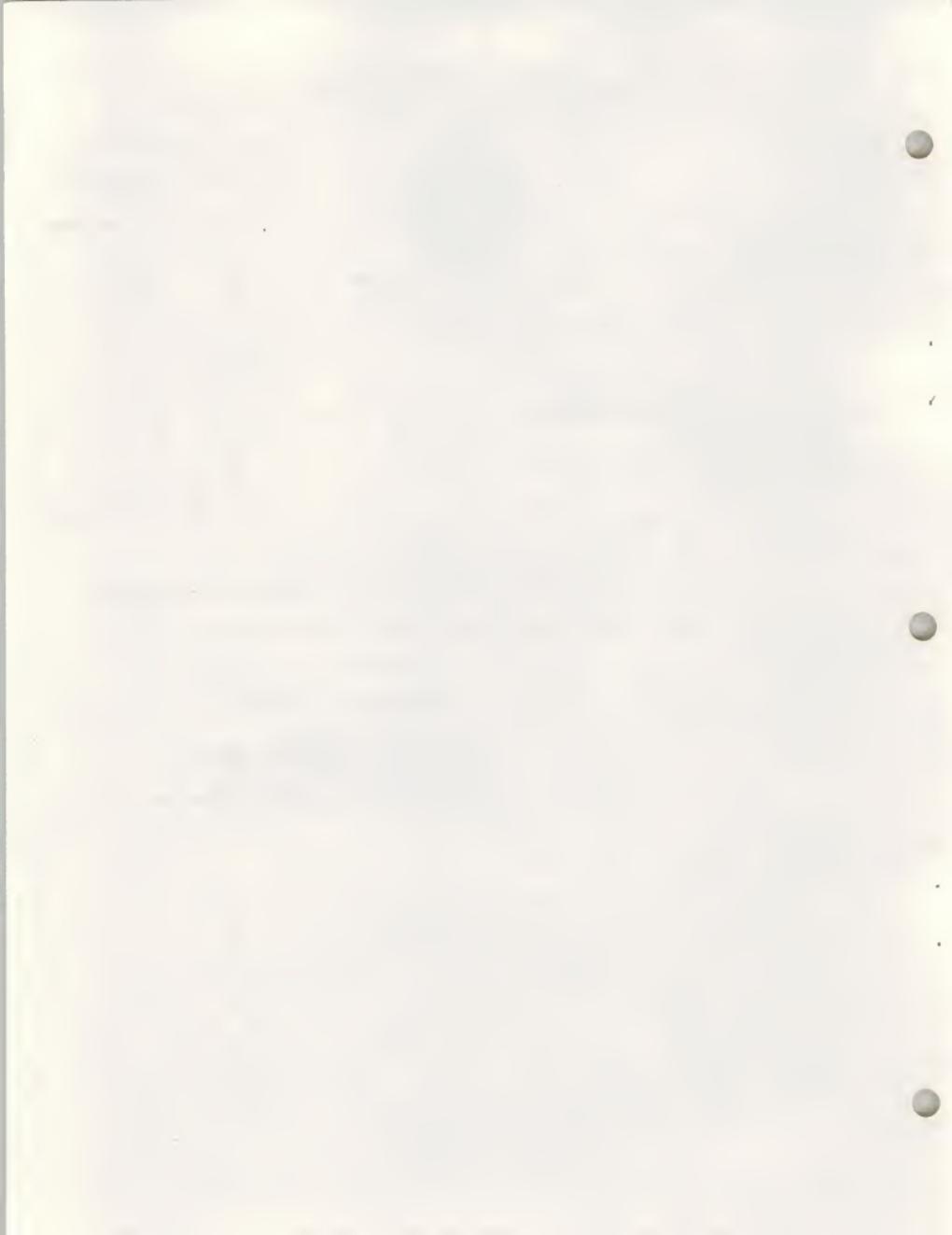
I am pleased to transmit to you the "Statistical Summary" of the Department of Livestock, Animal Health Division, for the fiscal year ended June 30, 1974.

Yours truly,

DEPARTMENT OF LIVESTOCK

A handwritten signature in cursive script, appearing to read "G.C. Halver".  
GLENN C. HALVER, D.V.M.  
Administrator & State Veterinarian

GCH/cd



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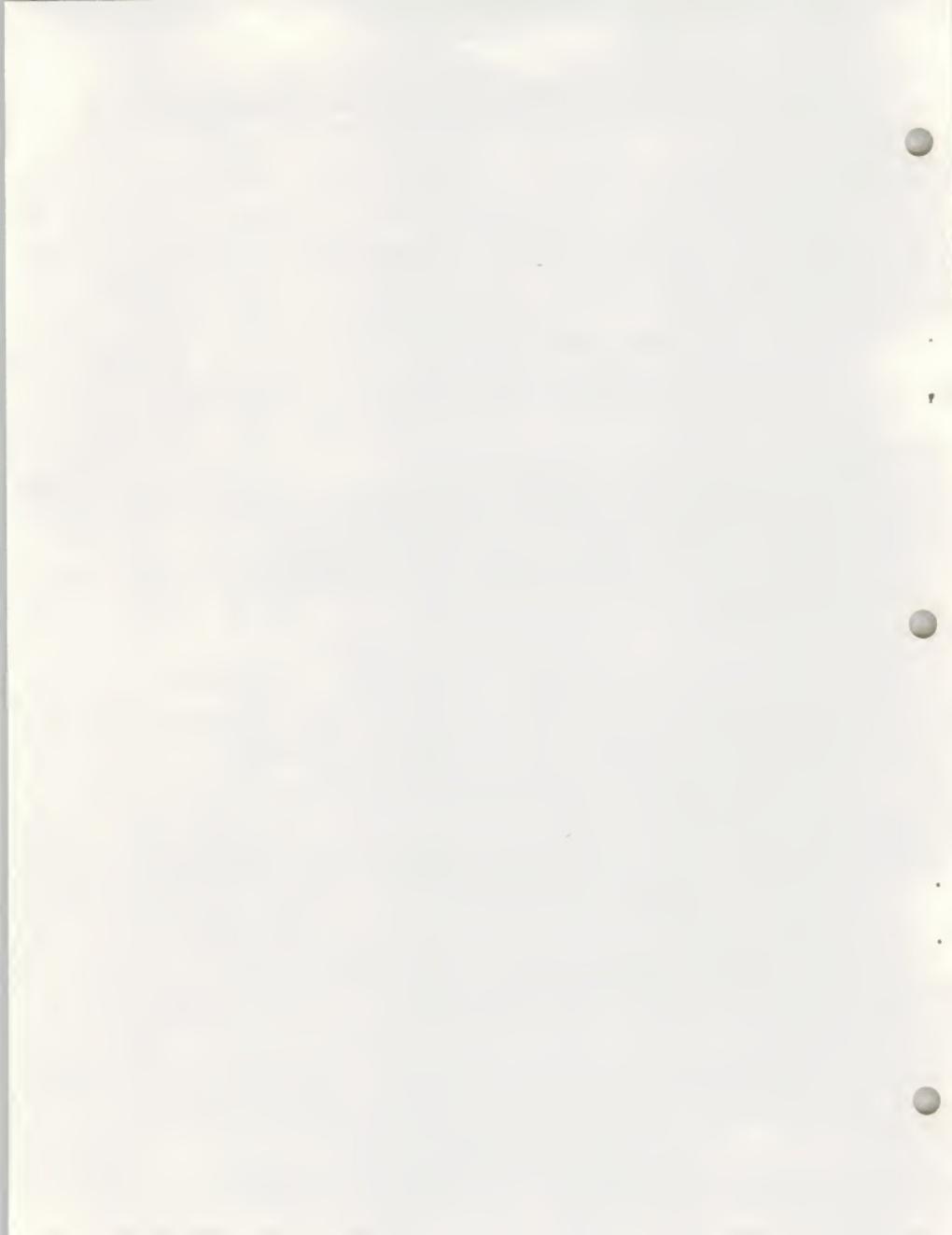


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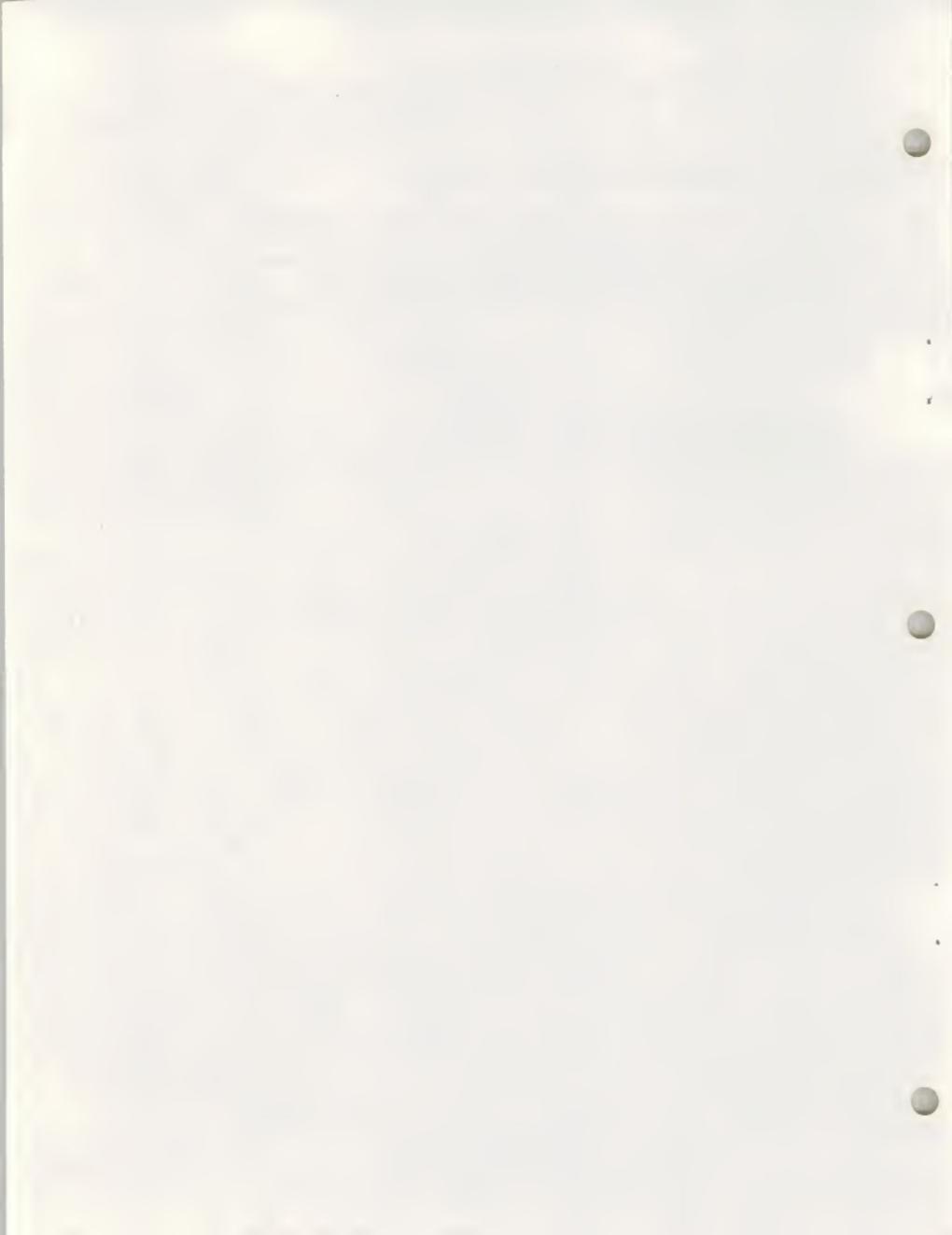
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MONTANA BOARD OF LIVESTOCK

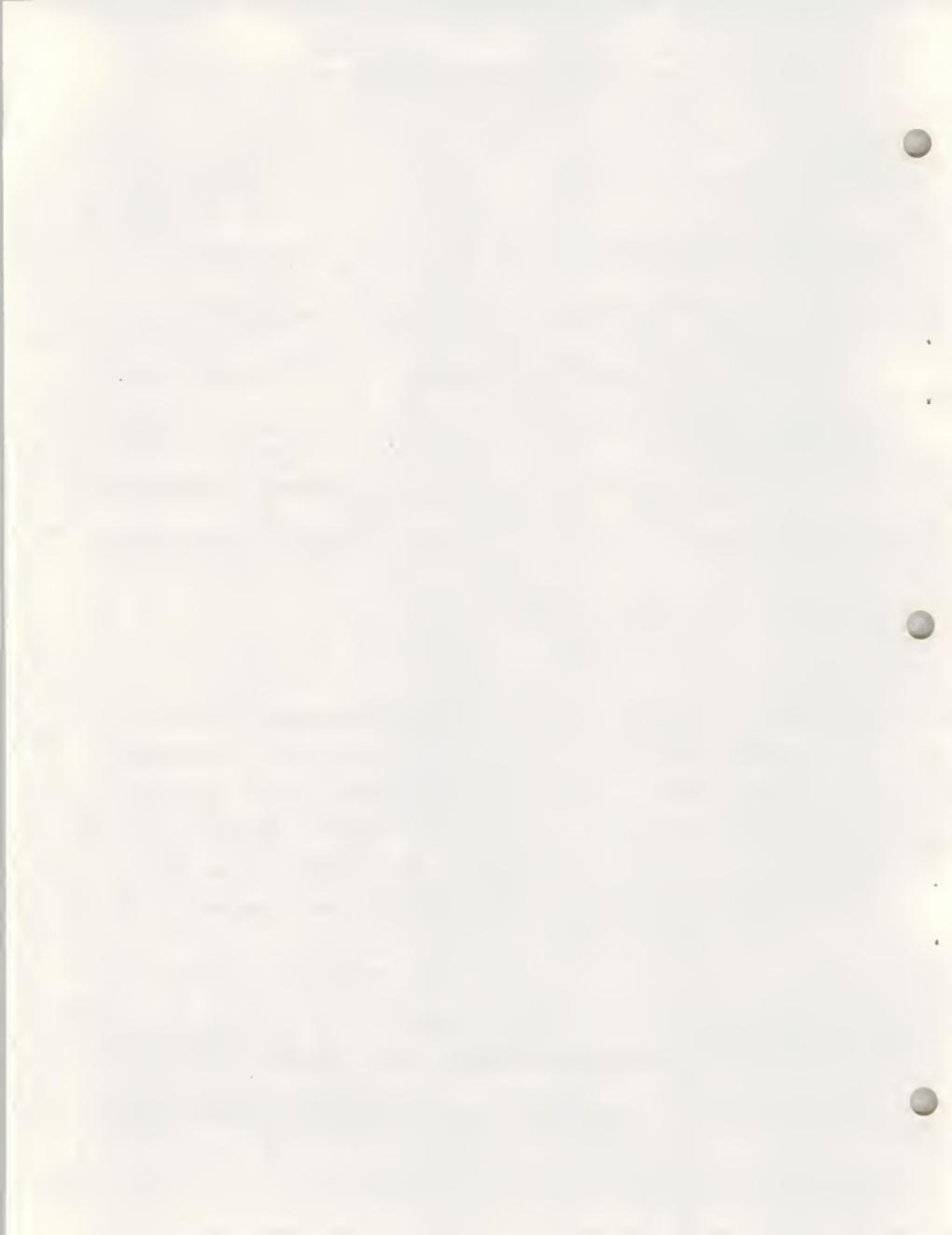
<u>OFFICER</u>	<u>Term of Office</u>	<u>Home Address</u>
ROBERT SIMONS, Chairman.....	3-1-71 -- 3-1-77	Turner, Montana 59542
ROBERT G. BARTHELMESS, Member.....	3-1-71 -- 3-1-77	Miles City, Montana 59301
JESS BLANKENSHIP, Member.....	3-1-69 -- 3-1-75	Crow Agency, Montana 59022
ROBERT L. DESCHAMPS, JR., Member.....	3-1-73 -- 3-1-79	Ronan, Montana 59823
THOMAS EVANS, Member.....	3-1-69 -- 3-1-75	Stanford, Montana 59479
FRED JOHNSTON, Member.....	3-1-73 -- 3-1-79	Great Falls, Montana 59401

STAFF OFFICERS

GLENN C. HALVER, D.V.M. .....	Administrator and State Veterinarian
JAMES W. GLOSSER, D.V.M. .....	Chief, Disease Control Bureau
DON P. FERLICKA, D.V.M. .....	District Deputy State Veterinarian
BECKWITH HUBBELL, JR., D.V.M. .....	Chief, Diagnostic Laboratory Bureau
HERB BALLOU, M.S. .....	Supervisor, Dairy & Milk Inspection Section
THOMAS F. LOFTHOUSE, M.S. .....	Supervisor, Poultry & Egg Inspection Section

PRINCIPAL OFFICES

DEPARTMENT OF LIVESTOCK, ANIMAL HEALTH DIVISION .....	Livestock Building, Capitol Grounds, Helena
DIAGNOSTIC LABORATORY.....	Hadleigh Marsh Laboratories, Montana State University, Bozeman



MONTANA BOARD OF LIVESTOCK MEETINGS

September 16, 1973 .....	Billings
September 30, 1973 .....	Great Falls
December 2, 1973 .....	Billings
December 3, 1973.....	Billings
March 5, 1974.....	Helena
April 2, 1974 .....	Great Falls
May 15, 1974 .....	Billings



APPENDIX A -- ADMINISTRATION PROGRAM

OFFICIAL REGULATIONS ADOPTED, REVISED AND RESCINDED

Adopted: (None)

Revised: (None)

Rescinded: (None)

Emergency Rules:

32-2.6(10)-S6360, MAC, Rabies Quarantine, Custer County  
Effective 4-24-74, expired 8-21-74.

32-2.6(10)-S6350, MAC, Rabies Quarantine; Prairie County, Custer County, Phillips  
County and Hill County, effective 5-1-74.



LICENSES AND PERMITS ISSUED

Licenses:

Butter and Cheese Wholesalers.....	62
Cream Stations.....	5
Dairies -- Fluid Milk (Grade A).....	291
Dairies -- Milk for Manufacturing Purposes (Grade B).....	91
Egg Dealers -- Retail.....	74
Egg Dealers -- Wholesale.....	43
Egg Graders.....	92
Garbage Feeders.....	4
Meat Depots.....	8
Meat Packing Houses.....	46
Milk and Cream Graders, Weighers, and Samplers.....	86
Milk and Cream Haulers.....	57
Milk and Cream Testers.....	53
Milk Plants -- Fluid Milk (Grade A).....	22
Milk Plants -- Manufactured Dairy Products (Grade B).....	33
Rendering Plants.....	9
Slaughterhouses.....	46
Total Licenses Issued.....	1,022

Permits:

Milk Distributors.....	122
Poultry Shipping (Chicks and Hatching Eggs).....	44
Semen for Artificial Insemination (Approved Sires).....	836

TOTAL LICENSES AND PERMITS ISSUED..... 2,026



## APPENDIX B -- DIAGNOSTIC LABORATORY PROGRAM

SUMMARY OF LABORATORY TESTS BY TYPE OF TEST

<u>TYPE OF TEST</u>	<u>NUMBER</u>
Autopsies.....	1,019
<u>*Bacteriological and Chemical Tests of Milk and Milk Products:</u>	
In Compliance.....	20,432
Not in Compliance.....	<u>1,502</u>
Total.....	21,451
<u>Bacteriology, Parasitology, Pathology and Virology:</u>	
Positive.....	4,542
Negative.....	2,839
Inconclusive.....	<u>1,855</u>
Total.....	9,236
<u>Chemical:</u>	
Blood.....	1,074
Pesticide residue.....	132
Toxicology.....	398
Water.....	<u>273</u>
Total.....	1,877
<u>Serology (Tests performed at Diagnostic Laboratory):</u>	<u>145,066</u>
SUB-TOTAL.....	187,649
<u>P L U S :</u>	
<u>Serology (Tests performed in Field and at Livestock Markets):</u>	
Brucellosis tests (card) -- Bison.....	307
" " (card) -- Cattle.....	28,435
" " (card) -- Goat.....	16
" " (card) -- Swine.....	1,762
Pullorum tests..... -- Poultry.....	<u>3,533</u>
SUB-TOTAL.....	<u>34,073</u>
<u>TOTAL LABORATORY TESTS BY TYPE OF TEST</u> .....	<u>221,722</u>

\* Includes Wisconsin Mastitis Tests.



SUMMARY OF LABORATORY TESTS BY SPECIES, PRODUCT OR MATERIAL

SPECIES, PRODUCT OR MATERIAL	NUMBER	PERCENT
Cattle.....	149,112.....	83.30
Milk and Milk Products.....	24,240.....	13.54
Horses.....	1,775.....	.99
Swine.....	889.....	.50
Bison.....	571.....	.32
Sheep.....	422.....	.24
Dogs.....	418.....	.23
Skunks.....	341.....	1.90
Water.....	273.....	.15
Cats.....	182.....	.10
Chickens.....	169.....	.09
Bats.....	157.....	.09
Rabbits.....	55.....	.03
Raccoons.....	53.....	.03
Goats.....	49.....	.03
Mice.....	27.....	.02
Turkeys.....	25.....	.01
Feed.....	24.....	.01
Birds.....	18.....	.01
Gophers.....	17.....	.01
Foxes.....	14.....	.01
Coyotes.....	12.....	
Deer.....	12.....	.03
Gerbils.....	12.....	
Hamsters.....	12.....	
Meat Meal.....	10.....	
Meat & Meat Products.....	7.....	
Badgers.....	6.....	
Bobcats.....	6.....	
Elk.....	6.....	
Rats.....	6.....	.03
Muskrats.....	6.....	
Squirrel.....	5.....	
Miscellaneous.....	70.....	.04
<b>TOTAL LABORATORY TESTS BY SPECIES, PRODUCT OR MATERIAL....</b>	<b>179,001.....</b>	<b>100.00</b>



AUTOPSIES PERFORMED REPORT

SPECIES	NUMBER	SPECIES	NUMBER
Badgers.....	3	Rats.....	6
Bats.....	87	Sheep.....	36
Cats.....	38	Skunks.....	150
Cattle.....	116	Squirrels.....	5
Chickens.....	105	Swine.....	84
Chipmunk.....	2	Turkeys.....	9
Coyotes.....	6		
Deer.....	1		
Dogs.....	66		
<u>Fetuses:</u>			
Bovine.....	183		
Caprine.....	1		
Equine.....	6		
Ovine.....	3		
Porcine.....	5		
Foxes.....	10		
Gerbils.....	4		
Goose.....	2		
Goat (african pigmy).....	1		
Gophers.....	9		
Hamsters.....	7		
Hawk.....	2		
Horses.....	5		
Mice.....	18		
Mink.....	1		
Muskrats.....	3		
Owl.....	1		
Pigeon.....	1		
Porcupines.....	2		
Rabbits.....	20		
Raccoons.....	21		

TOTAL AUTOPSIES PERFORMED..... 1,019



BACTERIOLOGICAL AND CHEMICAL TESTS OF MILK AND MILK PRODUCTS

TYPE OF TEST	IN COMPLIANCE	NOT IN COMPLIANCE
<u>BACTERIOLOGICAL TESTS</u>		
<u>Butter:</u>		
Coliform Counts.....	47	5
Yeast & Mold Counts.....	37	18
<u>Buttermilk:</u>		
Coliform Counts.....	116	1
<u>Cheese:</u>		
Coliform Counts.....	40	20
Yeast & Mold Counts.....	3	8
<u>Cottage Cheese:</u>		
Coliform Counts.....	88	7
<u>Cream:</u>		
Antibiotic Detection Tests.....	266	1
Bacterial Counts.....	246	19
Coliform Counts.....	259	21
<u>Dry Milk:</u>		
Antibiotic Detection Tests.....	1	1
Bacterial Counts.....	8	0
Coliform Counts.....	9	0
Salmonella.....	5	0
<u>Egg Nog:</u>		
Antibiotic Detection Tests.....	10	0
Bacterial Counts.....	10	0
Coliform Counts.....	9	0
<u>Frozen Dessert (Vegetable Fat):</u>		
Antibiotic Detection Tests.....	5	0
Bacterial Counts.....	5	0
Coliform Counts.....	4	1
<u>Ice Cream &amp; Ice Milk:</u>		
Antibiotic Detection Tests.....	143	0
Bacterial Counts.....	125	18
Coliform Counts.....	119	34
<u>Ice Cream, Shake &amp; Milk Mix:</u>		
Antibiotic Detection Tests.....	83	0
Bacterial Counts.....	65	17



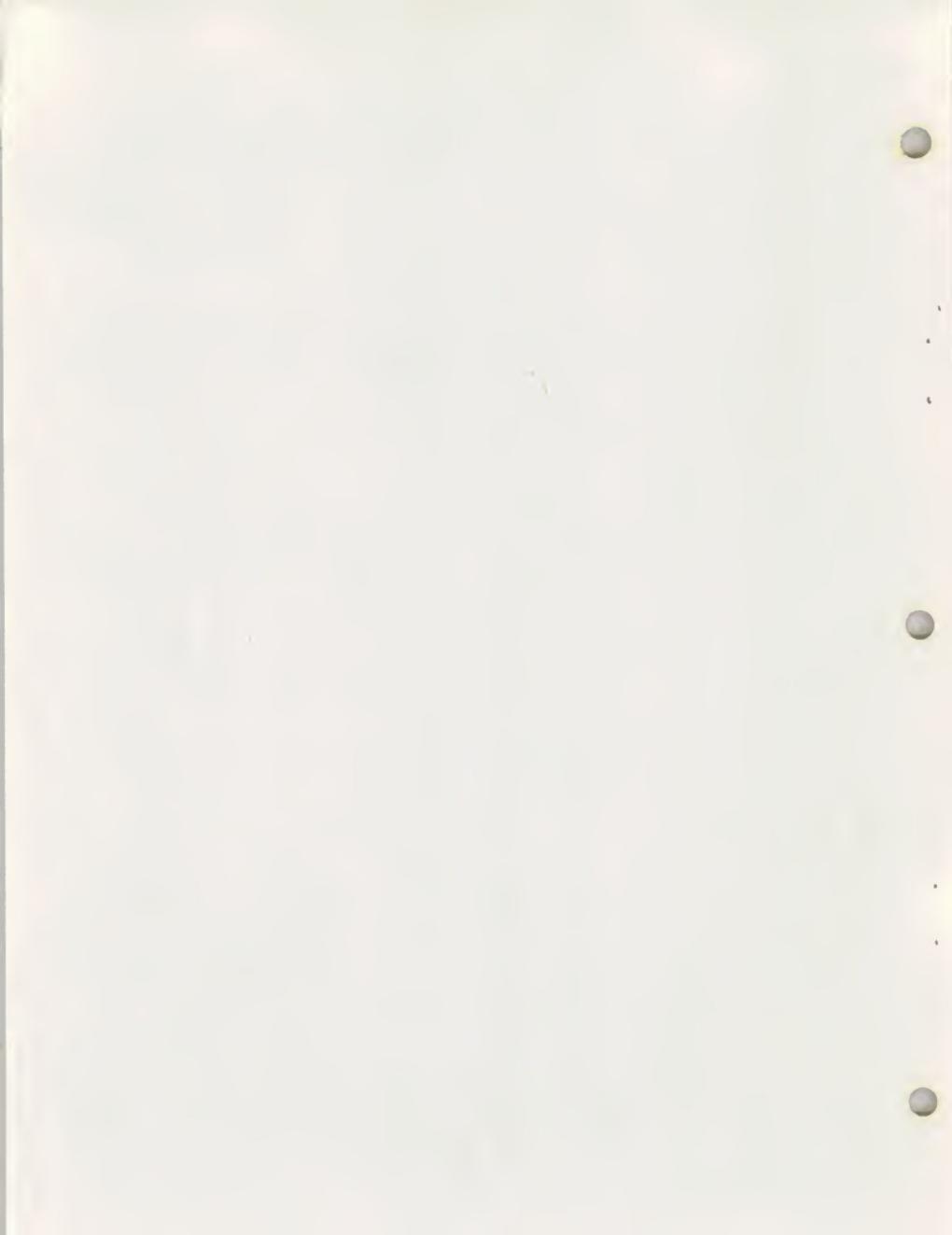
Bacteriological and Chemical Tests of Milk and Milk Products

TYPE OF TEST	IN COMPLIANCE	NOT IN COMPLIANCE
<u>Bacteriological Tests (Continued)</u>		
Coliform Counts.....	65	19
<u>Frozen Dessert Mix (Vegetable Fat):</u>		
Antibiotic Detection Tests.....	1	0
Bacterial Counts.....	1	0
Coliform Counts.....	1	0
<u>Milk: Raw for Pasteurization (Grade A)</u>		
Antibiotic Detection Tests.....	2,092	12
Bacterial Counts.....	1,907	174
Brucellosis Ring Tests.....	2,122	6
Coliform Counts (No compliance standards; reported as IN COMPLIANCE).....	2,101	0
Direct Microscopic Somatic Cell Counts.....	94	15
<u>Milk: Raw for Manufacturing (Grade B)</u>		
Antibiotic Detection Tests.....	392	2
Bacterial Counts.....	223	136
Brucellosis Ring Tests.....	390	1
<u>Milk: Raw (ungraded)</u>		
Antibiotic Detection Tests.....	2	0
Bacterial Count.....	2	0
Brucellosis Ring Tests.....	2	0
Coliform Counts.....	2	0
<u>Milk: Retail Raw &amp; Pasteurized Products</u>		
Antibiotic Detection Tests.....	751	3
Bacterial Counts.....	705	52
Brucellosis Ring Tests.....	64	0
Coliform Counts.....	704	67
<u>Pasteurized Milk Containers:</u>		
Bacterial Counts.....	2	0
Coliform Counts.....	5	0
<u>Sherbet:</u>		
Antibiotic Detection Tests.....	16	1
Bacterial Counts.....	16	0
Coliform Counts.....	14	3
<u>Sour Cream:</u>		
Coliform Counts.....	81	3



Appendix B -- Diagnostic Laboratory ProgramBacteriological and Chemical Tests of Milk and Milk Products

<u>TYPE OF TEST</u>	<u>IN COMPLIANCE</u>	<u>NOT IN COMPLIANCE</u>
<u>Bacteriological Tests (Continued)</u>		
<u>Sour Half-and-Half:</u>		
Coliform Counts.....	2	0
<u>Yogurt</u>		
Coliform Counts.....	13	0
<u>Other</u>		
Bacterial Counts.....	0	1
Coliform Counts.....	1	0
<u>TOTAL BACTERIOLOGICAL TESTS.....</u>	<u>13,449</u>	<u>668</u>
<u>CHEMICAL TESTS:</u>		
Butter.....	84	11
Buttermilk.....	170	23
Cheese.....	36	6
Cottage Cheese.....	135	20
Cream.....	408	36
Egg Nog.....	0	4
Frozen Dessert (Vegetable Fat).....	4	0
Frozen Dessert Mix (Vegetable Fat).....	4	0
Ice Cream and Ice Milk.....	197	61
Ice Cream, Shake & Milk Mix .....	117	35
<u>Milk:</u>		
General Chemical.....	1,006	202
Raw for Pasteurization (milk fat) No Compliance Standards; reported as IN COMPLIANCE.....	414	0
Raw for Manufacturing (milk fat) No Compliance Standards; same as above.....	35	0
*Wisconsin Mastitis Tests..Raw for Pasteurization (Grade A).....	3,186	377
**Wisconsin Mastitis Tests..Raw for Manufacturing (Grade B).....	665	18
Sherbet.....	18	9
Sour Cream.....	98	31
Yogurt.....	15	0



## Appendix B -- Diagnostic Laboratory Program

Bacteriological and Chemical Tests of Milk and Milk Products

TYPE OF TEST	IN COMPLIANCE	NOT IN COMPLIANCE
<u>Chemical Tests; (Continued)</u>		
TOTAL BACTERIOLOGICAL AND CHEMICAL TESTS.....	20,432	1,502

* Values in mms.....	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
Samples Tested.....		17	50	83	62	113	118	140	161	163	166	165	170	175	110	110	78	
Values in mms.....	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36
Samples Tested.....	74	69	67	20	18	12	14	6	7	7	3	1						1

\* Grade "A" Milk -- mms - millimeter measurement for WMT results, cutoff point dark line - WMT at 20 or excess of 20.

* Values in mms.....	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
Samples Tested.....		1	12	26	23	18	16	16	20	21	18	18	10	21	13	16	20	15
Values in mms.....	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36
Samples Tested.....	17	11	11	7	9	2	12	7	6	10	2	1	1	3	1	1		

\*\* Manufactured Milk -- mms - millimeter measurement for WMT results, cutoff point dark line - WMT at 28 or excess of 28.



## Appendix B - Diagnostic Laboratory Program

## BACTERIOLOGY, PARASITOLOGY, PATHOLOGY AND VIROLOGY REPORT



## Appendix B -- Diagnostic Laboratory Program

## Bacteriology, Parasitology, Pathology and Virology Report



## Appendix B -- Diagnostic Laboratory Report

## Bacteriology, Parasitology, Pathology and Virology Report



## Appendix B -- Diagnostic Laboratory Program

Bacteriology, Parasitology, Pathology and Virology Reports

Positive Findings	BAT	BEAR	CAT	CATTLE	CHICKEN	CHINCHILLA	DEER	DOG	ELK	GERBIL	GUINEA FIG	HORSE	MOUSE	RABBIT	SHEEP	SKUNK	SWINE	WATER	MISCELLANEOUS	
																			Specimen	No.
<i>Clostridium</i> Type C..				1										2						
" " E..				1																
" <i>septicum</i> ...				8										2						
" <i>sordellii</i> ...				28							1			2						
" sp.....				7										2						
" <i>sporogenes</i> ..				1																
<i>Cnemidocoptes mutans</i> ...				1																
<i>Coccidia ova</i> .....																			Coyote	1
<i>Coccidiosis</i> .....														1						
" hepatic....														1						
<i>Colibacillosis</i> .....				1										1						
" neonatal...				1																
<i>Colitis</i> catarrhal...																			2	
" chronic....																			1	
" erosive and focal					1															
" hemorrhagic....					2															
" mucoid.....					1															
" mucohemorrhagic					1			1												
" mucopurulent...																			1	
" ulcerated.....																			1	
<i>Congestion</i> .....			1	5				1				1		1		1			Monkey	1
" cerebral....				1																
" generalized...																				
" pulmonary...																			3	
" splenic...					1			1												
" widespread...					1															
<i>Conjunctivitis</i> .....								1												
<i>Connective tissue</i> .....				1																
<i>Corynebacterium bovis</i> ..				26								1						5		
" <i>equi</i> ....				11								1						4		
" <i>hemolyticum</i> ..				1															Hamster	1



## Appendix B -- Diagnostic Laboratory Program

Bacteriology, Parasitology, Pathology and Virology Report

<u>Positive Findings</u>	BAT	BEAR	CAT	CATTLE	CHICKEN	CHINCHILLA	DEER	DOG	ELK	GERBIL	GUINEA PIG	HORSE	MOUSE	RABBIT	SHEEP	SKUNK	SWINE	WATER	MISCELLANEOUS	
																			Specimen	No.
<u>Corynebacterium muri-</u>																				
<u>septicum</u> .				2								1						3		
" <u>ovis</u> .....				1																
" <u>pseudo-tuberculosis</u>				7								2						2		
" <u>pyogenes</u> .....				8														1		
" <u>renale</u> .....				20								1							Goat	1
" <u>sp</u> .....				9								1						1		
" <u>striatum</u> .....				3																
" <u>ulcerans</u> .....				1																
" <u>xerosis</u> .....				2														Hamster		1
<u>Cryptococcus</u> sp.....							1													
<u>Cyst</u> .....				1																
" <u>epidermal</u> .....							3													
" <u>inflammatory</u> .....				1																
<u>Cystitis chronic</u> .....																	1			
" <u>necrotic</u> .....				1																
<u>Degeneration</u> .....	1	4					2					1								
" <u>fatty</u> .....																				
" <u>hepatic fatty</u>				1																
" <u>hydropic</u> .....																		Monkey		1
<u>Dehydration</u> .....				1																
<u>Dermanyssus gallinarum</u> .....					1															
<u>Dermatitis</u> .....				1								1							Brown trout	1
<u>Dietary problem</u> .....					1															
<u>Distemper</u> .....				2				7												
<u>Dysentery</u> .....																	1			
<u>Ectoparasite</u> .....				1																
<u>Edema</u> .....				2																
" <u>cerebral</u> .....				4												1	2			
" <u>congenital neuraxial</u>				2												1	1			
" <u>pulmonary</u> .....				8								1	1			2		Monkey		1



## Appendix B -- Diagnostic Laboratory Program

BACTERIOLOGY, PARASITOLOGY, PATHOLOGY AND VIROLOGY REPORT

Positive Findings	BAT	BEAR	CAT	CATTLE	CHICKEN	CHINCHILLA	DEER	DOG	ELK	GERBIL	GUINEA PIG	HORSE	MOUSE	RABBIT	SHEEP	SKUNK	SWINE	WATER	MISCELLANEOUS	
																			Specimen	No.
Edematos abomasum.....					1															
<u>Eimeria auburnensis</u> .....					5															
" <u>bovis</u> .....					16															
" <u>brasiliensis</u> .....					1															
" <u>brunetti</u> .....					1															
" <u>canadensis</u> .....					4															
" sp.....					9															
" <u>zurnii</u> .....					12															
Emaciation.....					2															
Emphysema.....					7															
Encephalitis.....					2	1			1											
" non-suppurative.....					2															
Encephalomalacia.....					2															
Encephalomyelitis.....																				
Endocarditis vegetative valvular.....																				
Endometritis.....																				
Enteritis.....																				
" neonatal.....																				
<u>Enterobacter aerogenes</u> .....																				
" <u>cloacae</u> .....																				
" <u>hafniae</u> .....						5	1													
" <u>liquefaciens</u> .....						3														
" sp.....						5														
Enterotoxemia.....						8														
Epididymis.....						7														
Epulis.....																				
Erysipelas.....																				
<u>Erysipelothrix insidiosa</u> .....																				
" sp.....																				
<u>Escherichia coli</u> .....																				
	1	526	7					6			1	8		2	11				<u>Milk replacer</u>	1



Bacteriology, Parasitology, Pathology and Virology Report

<u>Positive Findings</u>	BAT	BEAR	CAT	CATTLE	CHICKEN	CHINCHILLA	DEER	DOG	ELK	GERBIL	GUINEA PIG	HORSE	MOUSE	RABBIT	SHEEP	SKUNK	SWINE	WATER	MISCELLANEOUS
																			Specimen No.
Escherichia coli.....																			Hamster 1
" " .....																			Duck 1
" " .....																			Meat meal 1
" " .....																			Pheasant 1
" " .....																			Turkey 1
" " .....																			Squirrel 1
Fatty infiltration liver					1														
Fibroma.....					4			1	1			14							
Fibropapillomatosis						1													
infectious...																			
Fibrosarcoma.....					1														
Fibrosis.....					2	3			2			2		1	2				
Flavobacterium sp....																			1
Gas formation.....					1														
Gastritis.....													1						1
G. I. Obstruction....																			Mountain lion 1
Goiter.....					2														
Granulation tissue...													2						
Granuloma.....								1				3					1		
Greasy pig disease...																		2	
Heart failure.....					1	6													
" " right...						2													
Heaves.....													1						
Hemangioma.....																			
Hemangiosarcoma.....																			
Hematology.....																			
Complete blood count					1	7			2			1					2		
Differential bld.count					1	7			2			4					2		
Hematocrit.....					1	6			2			4					4		
Hemoglobin					1	7			2			5					4		
Red blood count....					1	6			2			5					2		



## Appendix B -- Diagnostic Laboratory Program

## Bacteriology, Parasitology, Pathology and Virology Report



## Appendix B -- Diagnostic Laboratory Report

## BACTERIOLOGY, PARASITOLOGY, PATHOLOGY AND VIROLOGY REPORT



## Appendix B -- Diagnostic Laboratory Program

Bacteriology, Parasitology, Pathology and Virology Report

Positive Findings	BAT	BEAR	CAT	CATTLE	CHICKEN	CHINCHILLA	DEER	DOG	ELK	GERBIL	GUINEA PIG	HORSE	MOUSE	RABBIT	SHEEP	SKUNK	SWINE	WATER	MISCELLANEOUS	
																			Specimen	No.
Lung consolidation.....																	1			
Lungworms.....															1					
Lymphadenitis.....						1													Goat	1
Lymphocytoma.....																				
Lymphoid proliferations						1								1						
Lymphomatosis.....						1														
Lymphosarcoma.....																				
Malacia.....														2						
Malignant catarrhal fever						1														
Malnutrition.....						1														
Mastitis.....													1							
Mastocytoma.....													4							
Melanoma.....													1							
Meningitis.....																	1			
Meningochoroiditis.....																				
" suppurative																				
Meningoencephalitis...	1	1																		
Mesothelioma.....													2							
Metritis.....													2							
<u>Micrococcus</u> sp.....													1							
Milk aspiration.....																				
<u>Mima polymorpha</u> .....	1	19												1		2		Milk	1	
<u>Moniezia</u> sp.....															1					
<u>Monilia candidiosis</u> .....																				
" <u>sitophilis</u> .....																				
<u>Moraxella bovis</u> .....																				
" <u>nonliquefaciens</u> .....																	1			
" Sp II.....																				
<u>Mucor</u> sp.....																		Grain	2	
" sp.....																		Feed	1	
Mulberry heart disease																	5			



## Appendix B -- Diagnostic Laboratory Program

Bacteriology, Parasitology, Pathology and Virology Report

Positive Findings	BAT	BEAR	CAT	CATTLE	CHICKEN	CHINCHILLA	DEER	DOG	ELK	GERBIL	GUINEA PIG	HORSE	MOUSE	RABBIT	SHEEP	SKUNK	SWINE	WATER	MISCELLANEOUS	Specimen	No.
Muscle myopathy skeletal					1																
" normal.....					1																
" skeletal.....																					
<i>Mycoplasma</i> sp.....	1	1																			
Mycotic abomasitis.....		1	1																		
" air sacculitis.....			1																		
Myositis.....			1																		
" atrophy.....				1																	
" necrotic.....				1																	
Myxoma.....				1																	
Necrosis.....	2	17	2				5				3			1				3			
" myocardial.....				1																	
<i>Neisseria</i> sp.....				1																	
<i>Nematodirus</i> sp.....				4																	
Neoplasia.....					1																
" splenic.....							1														
Nephritis.....				6				2										4			
Nephrosclerosis.....								1										1			
Nephrosis.....	1	4				1	3														
Neurofibroma.....	1	3																			
<i>Nocardia</i> sp.....				2																	
Nutritional deficiency.....					2																
" myopathy....					1																
" problem....					2																
Obstruction intestinal.....						1															
<i>Octobius megnini</i> .....																					
Omphalophilbitis.....				1																	
Ossification(tubule cells).....																					
Osteomalacia.....																					
<i>Ostertagia</i> sp.....				2																	
Oxyuris sp.....								1													

Turkey

5

Cat ticks

1



## Appendix B -- Diagnostic Laboratory Program

BACTERIOLOGY, PARASITOLOGY, PATHOLOGY AND VIROLOGY REPORTS



Bacteriology, Parasitology, Pathology and Virology Report

Positive Findings	BAT	BEAR	CAT	CATTLE	CHICKEN	CHINCHILLA	DEER	DOG	ELK	GERBIL	GUINEA PIG	HORSE	MOUSE	RABBIT	SHEEP	SKUNK	SWINE	WATER	MISCELLANEOUS		
																			Specimen	No.	
Poison lead.....					2																
" salt.....																		4			
" senecio.....												1									
Polioencephalomalacia					15																
Polyp.....												1									
Polycystia congenital					1																
Proteus mirabilis...					36	2	2	1								1	17		Squirrel	1	
" "																			Turkey	2	
" "																		Pheasant	1		
" "																		Meal meal	1		
" "																		Owl	1		
" morganii...						1										1	2				
" rettgerrii...					4						1	1						2			
" sp.....					3													Meal meal	1		
" vulgaris...					17	1						2					12	Pea foul	1		
Providencia sp Group A																	3				
" stuartii..						3													Turkey	1	
Pseudomonas reptilivorous																					
" sp.....					16	1	2				2		1	1		1	2				
Pyelonephritis.....																					
Rabies.....		1				3											27	Muskrat	1		
Rectal stricture....																		1			
Renal crystals (urates)							1														
Renal infarcts.....							1														
Reo virus.....							1														
Rhinitis mucopurulent						1															
Rhinopneumonitis...							1								4						
Rhinopneumonitis exposure							1								1						
Rhinotraecheitis....							1								1						
Rhizopus niger.....							2								1			Grain	1		
" sp.....							1								1			Barley feed	1		



## Appendix B -- Diagnostic Laboratory Program

BACTERIOLOGY, PARASITOLOGY, PATHOLOGY AND VIROLOGY REPORT



Bacteriology, Parasitology, Pathology and Virology Report

Positive Findings	BAT	BEAR	CAT	CATTLE	CHICKEN	CHINCHILLA	DEER	DOG	ELK	GERBIL	GUINEA PIG	HORSE	MOUSE	RABBIT	SHEEP	SKUNK	SWINE	WATER	MISCELLANEOUS
																			Specimen
<i>Streptococcus acidominimus</i>		2															1		
" <i>agalactiae</i>		1															1		
" <i>anginosus</i>		1															2	Goat	1
" <i>bovis</i>	1	47																Goat	1
" <i>canis</i>																		Milk replacer	1
" <i>cremoris</i>		1																	
" <i>dysgalactiae</i>		2																	
" <i>epidermidis</i>		2																	
" <i>equi</i>	1	1										1					5		
" <i>equinus</i>		2																	
" <i>equisimilis</i>	1				1										1	3			
" <i>faecalis</i>	1	32			3							1		2	7		Duck	1	
" "																	Turkey	2	
" <i>lactis</i>		16			1							2				3			
" <i>mitis</i>		2														2			
" <i>pyogenes</i>		1																	
" <i>sanguis</i>																1			
" sp.	47	1		1								5		5	6		Duck	1	
" sp.																	Bobcat	1	
" <i>suis</i>																	1		
" <i>uberis</i>		2													1				
" <i>viridans</i>		1																	
" <i>zoepidemicus</i>							1				11						Feed cubes	1	
<i>Streptomyces</i> sp.							1												
<i>Strongyloides</i> sp.											34								
<i>Strongylus</i> sp.		16									11					1			
Suffocation																	1		
Swine box																	1		
" influenza																	1		
<i>Syncephalostromum</i> sp.							1												
<i>Taenia kralvi</i>																	Moose	1	



## Appendix B -- Diagnostic Laboratory Program

Bacteriology, Parasitology, Pathology and Virology Report

Positive Findings	BAT	BEAR	CAT	CATTLE	CHICKEN	CHINCHILLA	DEER	DOG	ELK	GERBIL	GUINEA PIG	HORSE	MOUSE	RABBIT	SHEEP	SKUNK	SWINE	WATER	MISCELLANEOUS	
																			Specimen	No.
TEM.....				23																
Tendon slipped.....					3															
Thrombosis.....					1															
Tissue connective.....					1															
" fibronecrotic.....					1															
" granulation.....					1															
" inflammatory.....																				
" chronic.....																				
" scrotal tunic.....																				
Thyroid hyperplasia.....				5																
" normal				1																
Torsion.....																	1			
Tracheitis.....					1															
Trauma.....																	1			
<u>Trichomonas fetus.....</u>				7																
" sp.....				1																
<u>Trichophyton sp.....</u>				3				2												
<u>Trichostrongylus sp.....</u>				54				1			3			1						
Tumor.....								4			1									
" mammary mixed.....								2												
" sertoli cell.....								1												
" squamous cell.....				1																
" thymic.....				1																
Ulcer and erosion.....					1															
" perforated abomasal					1															
Vascular collapse.....					2															
Vasculitis (placenta).....					1															
Vas deferens.....				84										1						
Virus isolation.....				15																
" pig pneumonia.....																				
Vibrio fetus.....				1													4			



Bacteriology, Parasitology, Pathology and Virology Report

Positive Findings	BAT	BEAR	CAT	CATTLE	CHICKEN	CHINCHILLA	DEER	DOG	ELK	GERBIL	GUINEA PIG	HORSE	MOUSE	RABBIT	SHEEP	SKUNK	SWINE	WATER	MISCELLANEOUS	
																			Specimen	No.
<u>Vibrio fetus intestinalis</u>					2															
Vibriosis venerealis.....					16															
Vibriosis.....					3															
Weak calf syndrome.....					4															
White muscle disease.....					3															
Worms horse hair.....																		1		
Yeast.....																				1
Yeast-like forms.....					1															
TOTALS Positive Findings.	1	2	62	3407	60	7	6	169	0	0	3	256	0	23	85	30	347	2	Various	82



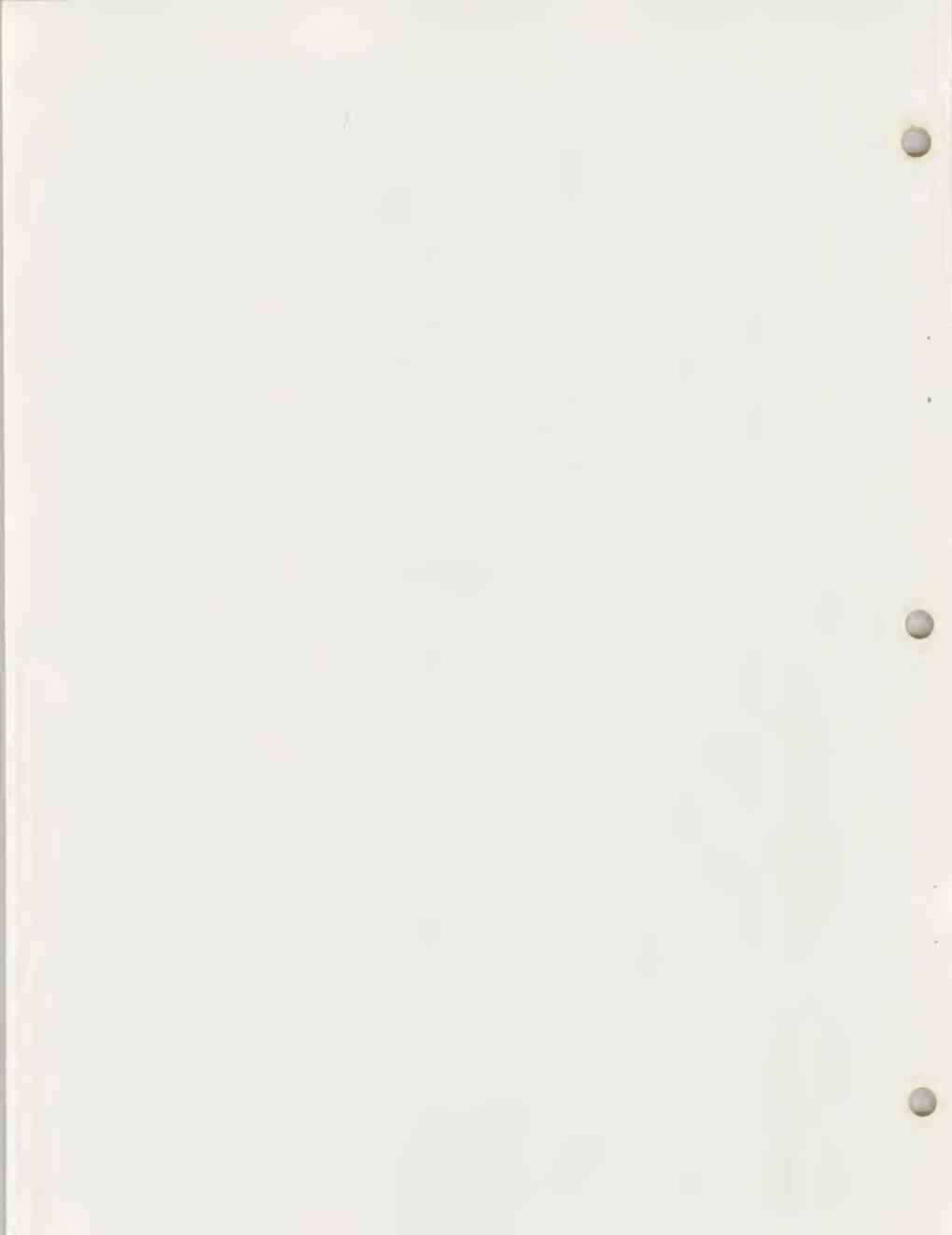
## BACTERIOLOGY, PARASITOLOGY, PATHOLOGY AND VIROLOGY REPORT



## Appendix B -- Diagnostic Laboratory Program

BACTERIOLOGY, PARASITOLOGY, PATHOLOGY AND VIROLOGY REPORT

Negative Findings	BAT	BEAR	CAT	CATTLE	CHICKEN	CHINCHILLA	DEER	DOG	ELK	GERBIL	GUINEA PIG	HORSE	MOUSE	RABBIT	SHEEP	SKUNK	SWINE	WATER	MISCELLANEOUS
	Specimen	No.																	
Leptospira sp.....																			
Lesion gross.....	1	3						1											
Listeria sp.....		1	1					1											
Lungworms.....		7																	
Mites.....	1																		
Mycobacterium sp.....										1									
Mycoplasma sp.....																			
Ova (Eggs).....	10							6			7	1	2	4			Goat		1
Parainfluenza3.....	31																		
Parasites external.....	2																		
Parasitism.....	1	3					1												
Psittacosis.....																			
Rabies.....	69	1	51	10				1	62	12	2	27	6	161	1				
".....																			
".....																			
".....																			
".....																			
".....																			
".....																			
".....																			
".....																			
".....																			
Reo Virus.....								86											
Rhinopneumonitis.....											1								
Salmonella sp.....									114	1	1								
" sp.....												2		3	12		Salmon		1
" sp.....																	Meat Meal		5
" sp.....																	Turkey		1
Shigella sp.....																	Food Samples		4



## Appendix B -- Diagnostic Laboratory Program

BACTERIOLOGY, PARASITOLOGY, PATHOLOGY AND VIROLOGY REPORT

<u>Negative Findings</u>	BAT	BEAR	CAT	CATTLE	CHICKEN	CHINCHILLA	DEER	DOG	ELK	GERBIL	GUINEA PIG	HORSE	MOUSE	RABBIT	SHEEP	SKUNK	SWINE	WATER	MISCELLANEOUS	
																			Specimen	No.
Staphylococcus aureus.....																			Milk replacer	1
Strongylus equinus.....												17								
Tapeworm.....						1						1								
Trichomonas sp.....				186																
Tuberculosis.....																		1		
Undetermined.....				6	1			1				7			2				1	
Vibrio sp.....				411											4					
Virus isolation.....				35																
Virus pig pneumonia.....																	129			
TOTALS.....	69	1	59	1907	4	1	3	77	0	12	0	56	27	10	24	161	319	Various		109



BACTERIOLOGY, PARASITOLOGY, PATHOLOGY AND VIROLOGY REPORT

Inconclusive Findings	BAT	BEAR	CAT	CATTLE	CHICKEN	CHINCHILLA	DEER	DOG	ELK	GERBIL	GUINEA PIG	HORSE	MOUSE	RABBIT	SHEEP	SKUNK	SWINE	WATER	MISCELLANEOUS	
																			Specimen	No.
Abortion vibrionic.....					1															
Abscess.....								1												
Bovine Virus Diarrhea.....				584																
Colibacillosis.....			1																	
Diabetes mellitus.....							1													
Enterotoxemia.....				17											2					
Enzootic Abortion of Ewes															1					
Erysipelothrix insidiosa.					2															
Heart failure.....																	1			
Infectious Bovine Rhinotracheitis.....				693																
Mycotoxicosis.....					1															
Parainfluenza3.....					87															
Placantitis.....					1															
Poison nitrate.....					1															
" urea.....					2															
Thymoma.....					1															
Trichomonas sp.....					83															
Undetermined.....	4	311	4				14				10		2	7		9			Magpie Sparrow	1 1
".....																				
Virus Pig Pneumonia.....																	9			
Weak Calf Syndrome.....					1															
White Muscle Disease.....					2															
TOTAL INCONCLUSIVE FINDINGS	4	1788	4				16				10		2	10		19		Various		2



CHEMICAL REPORTBLOOD ANALYSES

	CALCIUM			CAROTENE			MAGNESIUM			PHOSPHOROUS			VITAMIN A		
	High	Norm	Low	High	Norm	Low	High	Norm	Low	High	Norm	Low	High	Norm	Low
Avian.....	1						1			1					
Bovine.....	7	128	132		125	42	5	85	5	100	59	106	64	69	32
Equine.....	1	16	5		3	3	1	16		6	16	2	4	2	
Ovine.....			2				2					2			
Porcine.....	1	1	10	1	2					1	1	10	1		3
TOTAL.....	10	145	149	1	130	45	9	101	6	108	85	111	68	74	32

PESTICIDE RESIDUE ANALYSES

POSITIVE	TRACE	NEGATIVE
		132
		132

Milk.....

TOTAL PESTICIDE RESIDUE ANALYSES.....

TOXICOLOGY ANALYSESAvian:

Crop Contents.....  
Liver.....  
Intestine Contents.....

ARSENIC	COPPER		LEAD		STRYCHNINE	
Pos.	Neg.	Pos.	Neg.	Pos.	Neg.	Pos.
2				1		4
1				1		
1				1		1

Bovine:	19	11	
Blood.....			
Kidney.....	5		11
Liver.....	10	2	23
Stomach Contents.....	4	47	7
			43
			3
			5

Canine:	13	1	7	18	18
Stomach Contents.....					
Liver.....	2		2		
Blood.....				1	







Toxicology Analyses (Continued)

	ARSENIC		COPPER		LEAD		STRYCHNINE	
	Pos.	Neg.	Pos.	Neg.	Pos.	Neg.	Pos.	Neg.
TOTAL TOXICOLOGY ANALYSES.....	5	107			2	68	141	24 51

WATER ANALYSES (Minerals for Livestock Consumption)

Nitrate Samples.....  
Total Dissolved Samples.....

TOTAL WATER ANALYSES.....

	FIT	QUESTIONABLE	UNFIT
107		21	10
96		18	45
184		43	46

T O T A L   A L L   C H E M I C A L   A N A L Y S E S ..... 1,877



SEROLOGY REPORT

TEST	SPECIES	POSITIVE	NEGATIVE	SUSPICIOUS	TOTAL
Anaplasma CF.....	Big Horn Sheep..		3		3
" "	Bison.....		227		227
" "	Cattle.....	47	11,662	147	11,856
" "	Elk.....		2		2
" "	Mule Deer.....		2		2
Bluetongue CF.....	Bison.....		195	32	227
" "	Cattle.....	19	7,580	618	8,217
" "	Ovine.....		240	7	247
" "	Swine.....		1	5	6
Brucella abortus agglutination.....	Big Horn Sheep..		3		3
" "	Bison.....		85	1	86
" " " (Card-Field & Market)	Bison.....		307		307
" " " (Card-Field & Market)	Cattle.....	292	116,985	434	117,710
" " " (Seminal Plasma)	Cattle.....	228	28,204	3	28,435
" " "	Cattle.....		73		73
" " "	Dog.....		1		1
" " "	Elk.....		2		2
" " "	Goat.....		42		42
" " " (Card-Field & Market)	Goat.....		16		16
" " "	Horse.....	1	19		20
" " "	Mule Deer.....		2		2
" " "	Seminal Plasma..		12		12
" " "	Swine.....		111		111
" " " (Card-Diagnostic Lab)	Swine.....		463		463
" " " (card-Field & Market)	Swine.....		1,762		1,762
Brucellosis Ring Test.....	Cream.....		1,317	1	1,318
" " "	Milk.....		56	4	60
Eastern Equine Encephalomyelitis.....	Horse.....	5	325	1	331
Equine Infectious Anemia (Coggins Test)	Burro.....		2		2
" " " " "	Horse.....		1,045		1,045
Leptospira boriniana Agglutination	Cattle.....		44		44
Leptospira canicola Agglutination	Cat.....		1		1
" " " "	Cattle.....		50		50
" " " "	Dog.....	1	7		8
" " " "	Swine.....		2		2
Leptospira grippo-typhosa agglutination	Cattle.....		83		83
" " " "	Dog.....		1		1



Serology Report (continued)

TEST	SPECIES	POSITIVE	NEGATIVE	SUSPICIOUS	TOTAL
<u>Leptospira grippo-typhosa agglutination.....</u>	Swine.....		2		2
" <u>hardjo</u> "	Cat.....		1		1
" " "	Cattle.....	29	631	10	670
" " "	Dog.....		3		3
" " "	Horse.....	2	3	9	14
" " "	Swine.....		13		13
" <u>hebdomadis</u> "	Cattle.....	22			22
" <u>icterohemorrhagia</u> "	Cat.....		1		1
" " "	Cattle.....	2	69	5	76
" " "	Dog.....	1	6		7
" " "	Swine.....		6		6
" <u>jules</u> "	Cattle.....	22			22
" <u>pomona</u> "	Big Horn Sheep		3		3
" " "	Cattle.....	74	1,746	67	1,887
" " "	Dog.....	1	7		8
" " "	Elk.....		2		2
" " "	Goat.....		1		1
" " "	Horse.....	1	10		11
" " "	Mule Deer.....		2		2
" " "	Swine.....	4	48	1	53
Venezuelan Equine Encephalomyelitis	Horse.....		3		3
Western Equine Encephalomyelitis	Horse.....		1		1
TOTAL SEROLOGICAL TESTS.....		707	173,534	1,345	1,75586



## APPENDIX C -- DISEASE CONTROL PROGRAM

OFFICIAL ANIMAL INSPECTION REPORT

<u>SPECIES</u>	<u>NUMBER INSPECTED</u>
<u>Cattle:</u>	
Inspected for interstate shipment.....	952,322
Inspected at livestock auction markets.....	1,004,084
Backtagged.....	246,850
Tested for tuberculosis.....	22,118
Miscellaneous inspections.....	<u>68,960</u>
Total Cattle Inspections.....	2,294,334
<u>Horses:</u>	
Inspected for interstate shipment.....	9,988
Inspected at livestock auction markets.....	8,461
Miscellaneous inspections.....	<u>1,676</u>
Total Horse Inspections.....	20,125
<u>Sheep:</u>	
Inspected for interstate shipment.....	248,421
Inspected at livestock auction markets.....	213,630
Miscellaneous inspections.....	<u>3,012</u>
Total Sheep Inspections.....	465,063
<u>Swine:</u>	
Inspected for interstate shipment.....	8,426
Inspected at livestock auction markets.....	158,752
Miscellaneous inspections.....	<u>991</u>
Total Swine Inspections.....	168,169
<u>Poultry:</u>	
Inspected for interstate shipment.....	5,029
Miscellaneous inspections.....	<u>927</u>
Total Poultry Inspections.....	5,956
<u>Dogs and Miscellaneous Animals:</u>	
Inspected for interstate shipment.....	7,690
Miscellaneous inspections.....	<u>1,093</u>
Total Dogs and Miscellaneous Animal Inspections.....	<u>8,783</u>
TOTAL OFFICIAL ANIMAL INSPECTIONS.....	2,962,430



Appendix C -- Disease Control Program

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**ANIMALS IMPORTED INTO MONTANA**

POINT OF ORIGIN	CATTLE	HORSES	SHEEP	SWINE	POULTRY	DOGS	CATS	MISC	TOTAL
Alabama	43					145	24	1	171
Alaska		1				28	3	4	3,488
Arizona	3,369	84				9			17
Arkansas		8				10		5	823
California	648	160				65	5	6	7,887
Colorado	7,468	335	3	5					5
Connecticut	5					8	2	290	330
Florida	4	26				3	1	2	6
Georgia						37	4	21	14,877
Idaho	13,891	375	56	493					
Illinois	112	39		6		9			166
Indiana	3	2		4		27			590
Iowa	548	11				15		3	936
Kansas	739	15		164					40
Kentucky	14	9	16			1			461
Louisiana	454	3				4			6
Maine	6								11
Maryland	2	9				4	2		323
Michigan	314	3				50	4	4	1,091
Minnesota	779	68		186					455
Mississippi	441	6		3		5			
Missouri	821	13	1	171		11	2	1	1,020
Nebraska	1,264	95		168		38	4	24	1,593
Nevada	10	23				12			45
New Hampshire	47								47
New Mexico	34	37				8		6	85
New York	27					4			31
North Carolina						10	1	1	12
North Dakota	17,919	247	5,231	845		13	1	17	24,273
Ohio	95	7		152		9	4	2	269
Oklahoma	1,802	84		1		12			1,899
Oregon	491	127	3,630			87	8	1	4,344
Pennsylvania	2	1							3
So. Carolina		1				1			2
So. Dakota	15,802	174	12,946	43,377	18	19		15	72,351
Tennessee		5				17	2		24
Texas	8,979	72				28	3	6	9,088
Utah	1,309	250	97			30	1	5	1,692
Vermont	35	1				4		12	52
Virginia	10	1				1	2		14
Washington	6,395	573	19	2,329	8	146	11	54	9,535
Wisconsin	719	17		1		43	5	6	791
Wyoming	17,512	364	1,230	1,352		21	3	1	20,483
Canada	7,492	712	1,294	11,788	14,317	5		1,197	36,805
<b>TOTAL</b>	<b>109,605</b>	<b>3,958</b>	<b>24,523</b>	<b>61,045</b>	<b>14,343</b>	<b>941</b>	<b>92</b>	<b>1,684</b>	<b>216,191</b>



Appendix C -- Disease Control Program

OFFICIAL INSPECTIONS MADE AT MONTANA LIVESTOCK AUCTION MARKETS

MARKET LOCATION	CATTLE	HORSES	SHEEP	SWINE	TOTAL
Baker	33,248	11	1,694	22,541	57,494
Billings Commission	144,690	2,128	15,986	121	162,925
Billings Public	183,195	3,614	118,707	21,315	326,831
Bozeman	19,835	222	11,634	2,218	33,909
Butte	106,531	251	47	6,395	113,224
Dillon	18,756	126	11,217	575	30,674
Glasgow	63,082	349	6,900	32,115	102,446
Glendive	32,342	74	528	4,903	37,847
Great Falls	8,456	-0-	-0-	-0-	8,456
Hamilton	9,346	203	2,129	3,253	14,931
Havre	34,126	265	1,650	-0-	36,041
Kalispell	44,792	737	5,317	24,221	75,067
Lewistown	45,405	80	2,025	6,663	54,173
Miles City	45,158	6	136	236	45,536
Missoula	57,076	76	2,652	360	60,164
Shelby	32,084	21	30	-0-	32,135
Sidney	125,962	298	32,978	33,836	193,074
<b>TOTAL INSPECTIONS</b>	<b>1,004,084</b>	<b>8,461</b>	<b>213,630</b>	<b>158,752</b>	<b>1,384,927</b>

BRUCELLOSIS INFECTED HERDS

FISCAL YEAR	NUMBER OF INFECTED HERDS	PERCENT INFECTED HERDS IN MONTANA
First Area Test in Montana.....	2,434.....	7.96%
July 1, 1957.....	666.....	2.36%
July 1, 1958.....	357.....	1.24%
July 1, 1959.....	238.....	0.92%
July 1, 1960.....	135.....	0.56%
July 1, 1961.....	93.....	0.34%
July 1, 1962.....	49.....	0.16%
July 1, 1963.....	44.....	0.15%
July 1, 1964.....	36.....	0.14%
July 1, 1965.....	37.....	0.14%
July 1, 1966.....	30.....	0.12%
July 1, 1967.....	26.....	0.11%
July 1, 1968.....	14.....	0.07%
July 1, 1969.....	9.....	0.03%
July 1, 1970.....	13.....	0.06%
July 1, 1971.....	11.....	0.04%
July 1, 1972.....	7.....	0.02%
July 1, 1973.....	11.....	0.04%
July 1, 1974.....	10.....	0.04%



## Appendix C -- Disease Control Program

COUNTY DISTRIBUTION OF REMAINING BRUCELLOSIS INFECTED HERDS AS OF JUNE 30, 1974

COUNTY	NUMBER OF HERDS
Fergus.....	2
Gallatin.....	1
Missoula.....	2
Pondera.....	1
Ravalli.....	2
Yellowstone.....	2
<b>TOTAL.....</b>	<b>10</b>

BOVINE BRUCELLOSIS TEST RECORD

FISCAL YEAR	NUMBER TESTED	NUMBER REACTORS	PERCENT
1963.....	107,404.....	227.....	0.20%
1964.....	91,484.....	455.....	0.40%
1965.....	123,878.....	438.....	0.35%
1966.....	160,969.....	602.....	0.31%
1967.....	129,502.....	500.....	0.38%
1968.....	120,643.....	376.....	0.31%
1969.....	128,343.....	341.....	0.26%
1970.....	163,570.....	507.....	0.31%
1971.....	242,890.....	451.....	0.18%
1972.....	259,349.....	380.....	0.14%
1973.....	227,584.....	569.....	0.25%
1974.....	248,155.....	596.....	0.24%

BOVINE BRUCELLOSIS RING TEST RECORD -- MILK AND CREAM

FISCAL YEAR	NUMBER TESTED	NUMBER SUSPICIOUS	PERCENT
1963.....	10,085.....	50.....	0.49%
1964.....	12,805.....	41.....	0.32%
1965.....	13,411.....	54.....	0.32%
1966.....	10,969.....	37.....	0.34%
1967.....	9,765.....	41.....	0.42%
1968.....	8,180.....	27.....	0.30%
1969.....	8,152.....	11.....	0.13%
1970.....	3,810.....	6.....	0.13%
1971.....	4,237.....	18.....	0.42%
1972.....	5,761.....	14.....	0.24%
1973.....	4,944.....	48.....	0.97%
1974.....	3,951.....	12.....	0.30%



Appendix C -- Disease Control Program

CALVES OFFICIALLY VACCINATED WITH BRUCELLA ABORTUS VACCINE -- STRAIN 19

YEAR	DOSES								
1965..	267,367	1967..	282,686	1969..	231,782	1971..	296,992	1973..	290,110
1966..	287,642	1968..	240,890	1970..	247,844	1972..	257,932	1974..	309,594

CALVES UNOFFICIALLY VACCINATED WITH BRUCELLA ABORTUS VACCINE -- STRAIN 19

YEAR	DOSES
1974.....	6,761

VALIDATED BRUCELLOSIS-FREE SWINE HERDS

FISCAL YEAR	NUMBER OF HERDS
1965.....	9
1966.....	10
1967.....	11
1968.....	10
1969.....	15
1970.....	15
1971.....	19
1972.....	27
1973.....	29
1974.....	27

NUMBER OF CATTLE TESTED FOR TUBERCULOSIS

FISCAL YEAR	NUMBER OF CATTLE	NUMBER OF REACTORS	PERCENT REACTORS
1965.....	11,587.....	5.....	0.04%
1966.....	14,383.....	2.....	0.01%
1967.....	17,485.....	3.....	0.01%
1968.....	17,285.....	1.....	0.005%
1969.....	16,809.....	1.....	0.005%
1970.....	23,122.....	0.....	0%
1971.....	21,743.....	1.....	0.004%
1972.....	19,566.....	0.....	0%
1973.....	22,485.....	0.....	0%
1974.....	22,118.....	0.....	0%



## Appendix C -- Disease Control Program

POSITIVE RABIES

DATE	TOWN	COUNTY	SPECIES	NUMBER
June 28, 1973.....	Glenive.....	Dawson.....	Bat.....	1
July 19, 1973.....	Reserve.....	Sheridan.....	Skunk.....	1
July 19, 1973.....	Dagmar.....	Sheridan.....	Skunk.....	1
July 24, 1973.....	Rosebud.....	Rosebud.....	Bat.....	1
August 27, 1973.....	Raymond.....	Sheridan.....	Muskrat.....	1
August 27, 1973.....	Antelope.....	Sheridan.....	Skunk.....	1
September 6, 1973.....	Westby.....	Sheridan.....	Skunk.....	1
September 19, 1973.....	Wibaux.....	Wibaux.....	Skunk.....	1
October 22, 1973.....	Raymond.....	Sheridan.....	Skunk.....	1
October 31, 1973.....	Bainville.....	Roosevelt.....	Skunk.....	1
November 6, 1973.....	Raymond.....	Sheridan.....	Skunk.....	1
November 6, 1973.....	Bainville.....	Roosevelt.....	Skunk.....	1
November 15, 1973.....	Bainville.....	Roosevelt.....	Skunk.....	1
November 16, 1973.....	Bainville.....	Roosevelt.....	Skunk.....	1
December 2, 1973.....	Froid.....	Roosevelt.....	Skunk.....	1
December 3, 1973.....	Bainville.....	Roosevelt.....	Skunk.....	1
December 14, 1973.....	Fallon.....	Prairie.....	Calf.....	1
January 15, 1974.....	Bainville.....	Roosevelt.....	Skunk.....	1
January 25, 1974.....	Fallon.....	Prairie.....	Calf.....	1
February 8, 1974.....	Chinook.....	Blaine.....	Skunk.....	1
February 25, 1974.....	Chinook.....	Blaine.....	Skunk.....	1
February 25, 1974.....	Fallon.....	Prairie.....	Skunk.....	1
February 26, 1974.....	Fallon.....	Prairie.....	Skunk.....	2
February 28, 1974.....	Fallon.....	Prairie.....	Skunk.....	3
February 28, 1974.....	Plentywood.....	Sheridan.....	Skunk.....	1
March 25, 1974.....	Chinook.....	Blaine.....	Skunk.....	1
March 27, 1974.....	Chinook.....	Blaine.....	Skunk.....	1
April 1, 1974.....	Chinook.....	Blaine.....	Skunk.....	1
April 3, 1974.....	Terry.....	Prairie.....	Skunk.....	1
April 12, 1974.....	Kinsey.....	Custer.....	Skunk.....	1
April 12, 1974.....	Scobey.....	Daniels.....	Skunk.....	1
April 15, 1974.....	Glasgow.....	Valley.....	Skunk.....	1
April 15, 1974.....	Broadus.....	Powder River.....	Skunk.....	1
April 18, 1974.....	Malta.....	Phillips.....	Skunk.....	1
April 18, 1974.....	Plentywood.....	Sheridan.....	Skunk.....	1
April 19, 1974.....	Malta.....	Phillips.....	Skunk.....	1
April 21, 1974.....	Froid.....	Roosevelt.....	Skunk.....	1
April 23, 1974.....	Wibaux.....	Wibaux.....	Skunk.....	2
April 24, 1974.....	Havre.....	Hill.....	Skunk.....	1
April 27, 1974.....	Havre.....	Hill.....	Skunk.....	1
May 4, 1974.....	Dagmar.....	Sheridan.....	Skunk.....	1
May 8, 1974.....	Miles City.....	Custer.....	Skunk.....	1
May 10, 1974.....	Kinsey.....	Custer.....	Skunk.....	1
May 13, 1974.....	Outlook.....	Sheridan.....	Skunk.....	1
May 16, 1974.....	Broadus.....	Powder River.....	Skunk.....	1
May 18, 1974.....	Flaxville.....	Daniels.....	Skunk.....	1
June 12, 1974.....	Forsyth.....	Rosebud.....	Skunk.....	1
June 17, 1974.....	Forsyth.....	Rosebud.....	Skunk.....	1
June 18, 1974.....	Sand Springs.....	Garfield.....	Skunk.....	1



RABIES IN MONTANA ANIMALS

FISCAL YEAR	BADGER	BAT	CAT	CATTLE	DOG	MUSKRAT	SHEEP	SKUNK	TOTAL
1964.....		1						2	3
1965.....		3		1				5	9
1966.....		1						15	16
1967.....		1		1			1	2	5
1968.....	1	4						6	11
1969.....		5		1				7	13
1970.....			1						1
1971.....		1		1				2	4
1972.....		1			1			1	3
1973.....		4						29	33
1974.....		2		2		1		48	53
TOTAL.....	1	23	1	6	1	1	1	117	151

OUT-OF-STATE BREEDERS HOLDING PERMITS TO IMPORT SEMEN FOR ARTIFICIAL INSEMINATION

COMPANY	ADDRESS
All West Breeders.....	Burlington, Washington
American Breeders Service, Inc.....	DeForest, Wisconsin and Calgary, Alberta, Canada
B. C. Artificial Insemination Centre.....	Milner, British Columbia, Canada
Canadian Stock Breeders Service, Ltd.....	Winterburn, Alberta, Canada
Carnation Genetics.....	Hughson, California and Watertown, Wisconsin
Curtiss Breeding Service.....	Cary, Illinois
International Beef Breeders.....	Denver, Colorado
Prairie Breeders.....	Calgary, Alberta, Canada
Southern Breeders Ltd.....	Lethbridge, Alberta, Canada
Western Breeders Ltd.....	Balzac, Alberta, Canada and White City, Saskatchewan, Canada



## Montana Veterinarians' Animal Disease Report



## Appendix C -- Diagnostic Program

## Montana Veterinarians' Animal Disease Report (continued)

TYPE OF DISEASE	CATTLE		SHEEP		SWINE		HORSES		DOGS		POULTRY	
	Cases	Herds	Cases	Herds	Cases	Herds	Cases	Herds	Cases	Herds	Cases	Herds
Heartworm									1	1		
Helminthiasis												
Infectious anemia							3	3				
Infectious bronchitis									12	12	300	5
Infectious hepatitis									96	92		
Infectious keratitis												
Influenza							638	408				
Influenza-like syndrome									20	20		
Leptospirosis									63	63		
Lungworms												
Magnesium deficiency												
Malignant catarrhae fever												
Malignant edema												
Mastitis												
Metritis												
Pasteurellosis							300	1			3	3
Poison												
Poison: penta												
Polioencephalomalacia												
Posthitis							15	10				
Pneumonia							64	22	1	1		
Pregnancy toxemia									2	1		
Pulmonary emphysema							840	218				
Ram epididymitis organism (REO)									23	8		
Rhinotracheitis							2190	118			27	6
Rhinopneumonitis												
Ringworm							325	202				
Sarcocystis scabiei									2	1		
Shipping fever							7706	886			4	1
Streptococcus												
Thromboembolic meningoencephalitis (TEM)												
Tetanus							236	14				
Ulcer, abomasal									1	1		
Urolithiasis									7	7		
Vesicular stomatitis							1146	678				
									1	1		



## Appendix C -- Disease Control Program

## Montana Veterinarians' Animal Disease Report (Continued)

TYPE OF DISEASE	CATTLE		SHEEP		SWINE		HORSES		DOGS		POULTRY	
	Cases	Herds	Cases	Herds	Cases	Herds	Cases	Herds	Cases	Herds	Cases	Herds
Vibriosis	227	15	31	2								
Virus diarrhea	507	81										
Virus warts	34	22										
Vulvovaginitis, infectious & pustular	16	1										
Weak calf syndrome	63	5										
White muscle disease	30	14										
TOTAL	25897	5410	979	69	326	84	1163	651	1518	1423	330	6



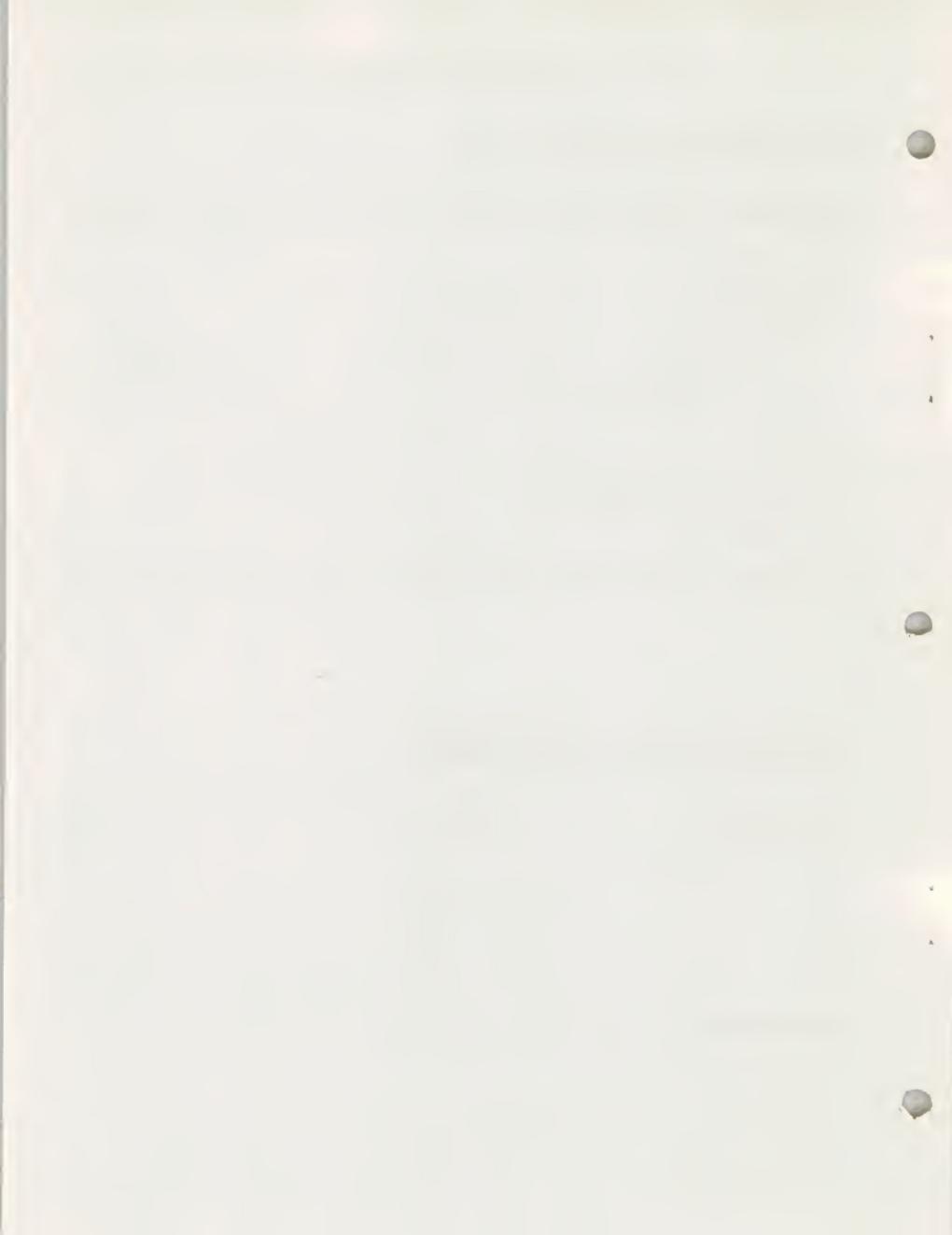
## APPENDIX D -- DAIRY AND MILK INSPECTION PROGRAM

OFFICIAL INSPECTIONS AND LABORATORY TESTS OF  
MILK, MILK PRODUCTS, DAIRIES AND MILK PLANTS

<u>OFFICIAL INSPECTIONS AND LABORATORY TESTS</u>	<u>NUMBER</u>
Antibiotic detection tests.....	3,746
Bacterial counts.....	3,732
Brucellosis ring tests.....	1,964
<u>Chemical Analyses:</u>	
General chemical:	
Milk.....	749
Milk products.....	1,467
Wisconsin Mastitis Tests.....	2,565
Total Chemical Analyses.....	4,781
Coliform tests.....	3,831
Dairy inspections.....	1,216
Distributor facilities inspections.....	114
Milk plant equipment tests.....	89
Milk plant facilities inspections.....	91
Milk tank truck inspections.....	115
Tuberculosis tests.....	4,690
<u>TOTAL OFFICIAL INSPECTIONS AND LABORATORY TESTS.....</u>	<u>24,369</u>

RETAIL RAW DAIRIES SANITATION COMPLIANCE RATINGS  
WITH MONTANA DEPARTMENT OF LIVESTOCK REGULATIONS

<u>RETAIL RAW DAIRY CODE NUMBER</u>	<u>POUNDS SOLD DAILY</u>	<u>DAIRY SCORE</u>
R-1.....	69.....	97%
R-2.....	2,017.....	96%
R-6.....	2,750.....	91%
R-15.....	346.....	93%
R-21.....	242.....	89%
R-25.....	204.....	96%
R-34.....	1,100.....	95%
<u>TOTAL AND AVERAGE.....</u>	<u>6,728.....</u>	<u>94%</u>



**MILK PLANT SANITATION COMPLIANCE RATINGS WITH  
MONTANA DEPARTMENT OF LIVESTOCK REGULATIONS**

MILK PLANT CODE NUMBER	POUNDS RECEIVED DAILY	PLANT SCORE	PRODUCER'S SCORE	PASTEURIZED MILK RATING
25-1.....	22,500.....	99%.....	99%.....	99%
25-2.....	61,000.....	87%.....	100%.....	93%
25-4.....	5,890.....	92%.....	94%.....	93%
25-5.....	1,167.....	96%.....	96%.....	96%
25-7.....	30,000.....	91%.....	100%.....	95%
25-8.....	2,570.....	86%.....	91%.....	88%
25-10.....	127,000.....	94%.....	95%.....	95%
25-13.....	840.....	94%.....	93%.....	94%
25-15.....	3,200.....	92%.....	93%.....	93%
25-16.....	42,000.....	100%.....	95%.....	97%
25-18.....	75,000.....	87%.....	93%.....	90%
25-19.....	13,300.....	90%.....	98%.....	94%
25-20.....	22,000.....	98%.....	99%.....	99%
25-25.....	39,750.....	98%.....	98%.....	98%
25-30.....	43,000.....	87%.....	98%.....	93%
25-32.....	45,300.....	98%.....	98%.....	98%
25-36.....	660.....	90%.....	95%.....	92%
25-38.....	65,000.....	100%.....	100%.....	100%
25-39.....	10,700.....	100%.....	100%.....	100%
25-40.....	31,310.....	100%.....	100%.....	100%
25-43.....	531.....	94%.....	91%.....	92%
25-47.....	66,900.....	95%.....	93%.....	94%
25-63.....	***.....	***.....	99%.....	99%
TOTAL AND AVERAGES	709,618.....	94%.....	97%.....	95%

\*\*\* Bulk milk tank pick-up system -- no plant rating.



## APPENDIX E -- POULTRY AND EGG INSPECTION PROGRAM

COMPLIANCE WITH EGG PRODUCTS INSPECTION ACT

NUMBER OF PL-597 INSPECTIONS	RECORD KEEPING		SEGREGATION & MARKING		DETENTION	
	Yes	No	Yes	No	Yes	No
181.....	181	0	181	0	1	180

EGG GRADERS TESTING PROGRAM

TYPE OF TEST	APPLICANTS PASSED	APPLICANTS FAILED
Performance Examination.....	2	0
Written Examination.....	2	0
TOTAL APPLICANTS PASSED AND FAILED.....	2	0

OFFICIAL INSPECTIONS OF SHELL EGGS OFFERED FOR SALE

OFFICIAL INSPECTIONS	NUMBER
Retail & Wholesale Dealer.....	698
License Exempt Dealer.....	752
Number of Eggs (dz.) Inspected.....	34,407
Number of Eggs (dz.) Downgraded.....	3,033
Number of Eggs (dz.) Rejected.....	4,678

POULTRY PRODUCTS GRADING

INSPECTIONS	CHICKENS	% COMPLIANCE	TURKEYS	% COMPLIANCE
Number of Packages Inspected.....	16	100%	13	100%
Weight of Shipments (pounds).....	144,000	100%	104,983	100%

